280-0142

Vitamin C Detect Powder

Faxback Doc. # 3144

Radio Shack #28-142

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)

IDENTITY (As Used on Label and List)
Vitamin C Detect Powder

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available the space must be marked to indicate that.

Section I

Manufacturer's Name NIPPON FINE CHEMICAL CO, LTD	Emergency Telephone Number 03-3241-0471
Adress (Number, Street, City, State, and ZIP Code) 3-1-13 NIHONBASHI HONCHO	Telephone Number for Information 03-3241-0471
CHUO-KU TOKYO CITY	Date Prepared
JAPAN 103	Signature of Prepared Yuka Tagawa

Section II -Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	(optional)
TALC		0.282g 94%		
INDOPHENOL		0.03g 1%		
CALUCIUM STEARATE		0.06g 2%		
POLYVINYL PYRROLIDONE K30		0.09g 3%		
FORMULA : C12 H6Cl2N NaO2				

Section III - Physical/Chemical Characteristics

Boiling Point	N/A		Specific Gravity (H2O=1)	N/A	
Vapor Pressure(mmHg)	N/A		Melting Point	N/A	
Vapor Density(AIR=1)	N/A		Evaporation Rate (Butyl Acetate=1)	N/A	

Solubility in Water: SOLUBLE

Appearance and Odor: BLUE TABLET

Secton IV - Fire and Explosion Hazard Data

Flash Point(Method Used)	N/A	Flammable Limits	LEL	UEL

Extinguishing Media: N/A

Special Fire Fighting Procedures: N/A

Unusual Fire and Explosion Hazards: NON USED FLAMEABLE OR EXPLOSIVE MATERIAL

(Reproduce locally)

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable × ×		

Incompatibility(Materials to Avoid)

NON USED UNSTABLE MATERIAL

Hazardous Decompositions or Byproducts

N/A

Hazardous Polymerzation	May Occur		Conditions to Avoid
	Will Not Occur × ×		

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?

Health Hazards (Acute and Chronic)

NON SPECIAL HAZARDS IF DRINK SOLUTION OR TABLET DRINK MUCH WATER

Carcinegenicity: N/A NTP? IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure

NON ANY SIGNS AND SYMPTONS

Medical Conditions
Generally Aggravated by Exposure

NONE

Emergency and First Aid Procedures

WASH OUT LIQUID WITH WATER

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is released or Spilled

WASH OUT RELEASED OR SPILLED LIQUID WITH WATER

Waste Disposal Method

NON SPECIAL DISPOSAL METHORD

Precautions to Be Taken in Handling and Storing

NON SPECIAL PRECAUTIONS

Other Precautions

Section VIII - Control Measures

Respiratory Protection (Specify Type)

N/A

Ventilation	Local Exhaust	Special
	Mechanical(General)	Other

Protective Gloves NOT NECESSARY	Eye Protection NOT NECESSARY

Other Protective Clothing of Equipment

Work/Hygienic Practices NOTHING IN PARTICULAR

Radio Shack #28-142 Calcium Measuring Solution

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)

IDENTITY (As Used on Label and List)	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available the space must be marked to indicate that.
Calcium Measuring Solution	

Section I

Manufacturer's Name	Emergency Telephone Number
NIPPON FINE CHEMICAL CO., LTD	03-3241-0471
Adress (Number, Street, City, State, and ZIP Code)	Telephone Number for information
3-1-13 NIHONBASHI HONCHO	03-3241-0471
CHUO-KU TOKYO CITY	Date Prepared
JAPAN 103	Signature of Preparer

Section II -Hazardous ingredients/Identity Information

Hazardous Components (Specific Chemical Identity Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	(optional)
AMMONIUM OXALATE		1%		
SOLVENTS :WATER		99%		
FORMULA : (NH4) 2C2O4				

Section III - Physical/Chemical Characteristics

Boiling Point		212 ° F	Specific Gravity (H2O=1)	N/A	
Vapor Pressure(mmHg)	N/A		Melting Point	N/A	
Vapor Density(AIR=1)	N/A		Evaporation Rate (Butyl Acetate=1)	N/A	

Solubility in Water: SOLUBLE

Appearance and Odor: COLORLESS SOLUTION

Secton IV - Fire and Explosion Hazard Data

Flash Point(Method Used)	Flammable Limits	LEL	UEL
N/A			

Extinguishing Media: N/A

Special Fire Fighting Procedures: N/A

Unusual Fire and Explosion Hazards: NON USED FLAMEABLE OR EXPLOSIVE MATERIAL

(Reproduce locally)

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable X X		

Incompatibility(Materials to Avoid)

NON USED UNSTABLE MATERIAL

Hazardous Decompositions or Byproducts

N/A

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur X X		

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?

Health Hazards (Acute and Chronic)

NON SPECIAL HAZARDS IF DRINK SOLUTION OR TABLET DRINK MUCH WATER

Carcinegeqicity: N/A NTP? IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure

NON ANY SIGNS AND SYMPTONS

Medical Conditions
Generally Aggravated by Exposure

NONE

Emergency and First Aid Procedures

WASH OUT LIQUID WITH WATER

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is released or Spilled

WASH OUT RELEASED OR SPILLED LIQUID WITH WATER

Waste Disposal Method

NON SPECIAL DISPOSAL METHORD

Precautions to Be Taken in Handling and Storing

NON SPECIAL PRECAUTIONS

Other Precautions

Section VIII - Control Measures

Respiratory Protection (Specify Type)

N/A

Ventilation	Local Exhaust	Special
	Mechanical(General)	Other

Protective Gloves NOT NECESSARY	Eye Protection NOT NECESSARY

Other Protective Clothing of Equipment

Work/Hygienic Practices NOTHING IN PARTICULAR

Radio Shack #28-142 PH Measuring Solution

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)

IDENTITY (As Used on Label and List)
PH Measuring Solution

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available the space must be marked to indicate that.

Section I

Manufacturer's Name
NIPPON FINE CHEMICAL CO., LTD

Emergency Telephone Number
03-3241-0471

Adress (Number, Street, City, State, and ZIP Code)
3-1-13 NIHONBASHI HONCHO
CHUO-KU TOKYO CITY
JAPAN 103

Telephone Number for information
03-3241-0471

Date Prepared

Signature of Preparer

Section II -Hazardous ingredients/Identity Information

Hazardous Components (Specific Chemical Identity Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	(optional)
METHLY RED SODIUM SALT		0.02 %		
BROMOTHYMOL BLUE SODIUM SALT		0.062 %		
PHEROLPHTHALEIN SODIUM SALT		0.07 %		
SOLVENTS: WATER		99.848 %		

Section III - Physical/Chemical Characteristics

Boiling Point		212 ° F	Specific Gravity (H,O=1)	N/A	
Vapor Pressure(mmHg)	N/A		Melting Point	N/A	
Vapor Density(AIR=1)	N/A		Evaporation Rate (Butyl Acetate=1)	N/A	

Solubility in Water
SOLUBLE

Appearance and Odor
BLUE PURPLE SOLUTION

Secton IV - Fire and Explosion Hazard Data

Flash Point(Method Used)	N/A	Flammable Limits	LEL	UEL

Extinguishing Media
N/A

Special Fire Fighting Procedures
N/A

Unusual Fire and Explosion Hazards
NON USED FLAMEABLE OR EXPLOSIVE MATERIAL

(Reproduce locally)

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable X X		

Incompatibility(Materials to Avoid)

NON USED UNSTABLE MATERIAL

Hazardous Decompositions or Byproducts

N/A

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur X X		

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?

Health Hazards (Acute and Chronic)

NON SPECIAL HAZARDS IF DRINK SOLUTION OR TABLET DRINK MUCH WATER

Carcinogenicity: N/A NTP? IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure

NON ANY SIGNS AND SYMPTONS

Medical Conditions
Generally Aggravated by Exposure

NONE

Emergency and First Aid Procedures

WASH OUT LIQUID WITH WATER

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is released or Spilled

WASH OUT RELEASED OR SPILLED LIQUID WITH WATER

Waste Disposal Method

NON SPECIAL DISPOSAL METHORD

Precautions to Be Taken in Handling and Storing

NON SPECIAL PRECAUTIONS

Other Precautions

Section VIII - Control Measures

Respiratory Protection (Specify Type)

N/A

Ventilation	Local Exhaust	Special
	Mechanical(General)	Other

Protective Gloves NOT NECESSARY	Eye Protection NOT NECESSARY

Other Protective Clothing of Equipment

Work/Hygienic Practices NOTHING IN PARTICULAR

Radio Shack #28-142 Salt Measuring Solution

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)

IDENTITY (As Used on Label and List)	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available the space must be marked to indicate that.
Salt Measuring Solution	

Section I

Manufacturer's Name	Emergency Telephone Number
NIPPON FINE CHEMICAL CO. LTD	03-3241-0471
Adress (Number, Street, City, State, and ZIP Code)	Telephone Number for information
3-1-13 NIHONBASHI HONCHO	03-3241-0471
CHUO-KU TOKYO CITY	Date Prepared
JAPAN 103	Signature of Preparer

Section II -Hazardous ingredients/Identity Information

Hazardous Components (Specific Chemical Identity Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	(optional)
SILVER NITRATE		0.1%		
SOLVENTS :WATER		99.9%		
FORMULA : Ag NO3				

Section III - Physical/Chemical Characteristics

Boiling Point		212 ° F	Specific Gravity (H,O=1)	N/A	
Vapor Pressure(mmHg)	N/A		Melting Point	N/A	
Vapor Density(AIR=1)	N/A		Evaporation Rate (Butyl Acetate=1)	N/A	

Solubility in Water: SOLUBLE

Appearance and Odor: COLORLESS SOLUTION

Section V - Fire and Explosion Hazard Data

Flash Point(Method Used)	Flammable Limits	LEL	UEL
N/A			

Extinguishing Media: N/A

Special Fire Fighting Procedures: N/A

Unusual Fire and Explosion Hazards: NON USED FLAMEABLE OR EXPLOSIVE MATERIAL

(Reproduce locally)

Section V - Reactivity Data

Stability			
	Unstable		Conditions to Avoid
	Stable X X		

Incompatibility(Materials to Avoid)

NON USED UNSTABLE MATERIAL

Hazardous Decompositions or Byproducts

N/A

Hazardous Polymerization			
	May Occur		Conditions to Avoid
	Will Not Occur X X		

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?

Health Hazards (Acute and Chronic)

NON SPECIAL HAZARDS IF DRINK SOLUTION OR TABLET DRINK MUCH WATER

Carcinogenicity: N/A NTP? IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure

NON ANY SIGNS AND SYMPTONS

Medical Conditions
Generally Aggravated by Exposure

NONE

Emergency and First Aid Procedures

WASH OUT LIQUID WITH WATER

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is released or Spilled

WASH OUT RELEASED OR SPILLED LIQUID WITH WATER

Waste Disposal Method

NON SPECIAL DISPOSAL METHORD

Precautions to Be Taken in Handling and Storing

NON SPECIAL PRECAUTIONS

Other Precautions

Section VIII - Control Measures

Respiratory Protection (Specify Type)

N/A

Ventilation		
	Local Exhaust	Special
	Mechanical(General)	Other

Protective Gloves	Eye Protection
NOT NECESSARY	NOT NECESSARY

Other Protective Clothing of Equipment

Work/Hygienic Practices NOTHING IN PARTICULAR

Radio Shack #28-142 Soft/Hard Water Judging Powder

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)

IDENTITY (As Used on Label and List)
Soft/Hard Water Judging Powder

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available the space must be marked to indicate that.

Section I

Manufacturer's Name NIPPON FINE CHEMICAL CO., LTD	Emergency Telephone Number 03-3241-0471
Adress (Number, Street, City, State, and ZIP Code) 3-1-13 NIHONBASHI HONCHO	Telephone Number for information 03-3241-0471
CHUO-KU TOKYO CITY	Date Prepared
JAPAN 103	Signature of Preparer

Section II -Hazardous ingredients/Identity Information

Hazardous Components (Specific Chemical Identity Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	(optional)
ERIOCHROME BLACK T	0.015g	1.5%		
SODIUM HYDROGEN CARBONATE	0.985g	98.5%		
FORMULA : C20 H12N3 NaO7 S				

Section III - Physical/Chemical Characteristics

Boiling Point	N/A		Specific Gravity (H2O=1)	N/A	
Vapor Pressure(mmHg)	N/A		Melting Point	N/A	
Vapor Density(AIR=1)	N/A		Evaporation Rate (Butyl Acetate=1)	N/A	

Solubility in Water: SOLUBLE

Appearance and Odor: PURPLE POWDER

Secton II - Fire and Explosion Hazard Data

Flash Point(Method Used)	N/A	Flammable Limits	LEL	UEL

Extinguishing Media: N/A

Special Fire Fighting Procedures: N/A

Unusual Fire and Explosion Hazards: NON USED FLAMEABLE OR EXPLOSIVE MATERIAL

(Reproduce locally)

Radio Shack #28-142 Soft/Hard Water Judging Powder

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable X X		

Incompatibility(Materials to Avoid)

NON USED UNSTABLE MATERIAL

Hazardous Decompositions or Byproducts

N/A

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur X X		

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?

Health Hazards (Acute and Chronic)

NON SPECIAL HAZARDS IF DRINK SOLUTION OR TABLET DRINK MUCH WATER

Carcinegeqicity: N/A NTP? IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure

NON ANY SIGNS AND SYMPTONS

Medical Conditions
Generally Aggravated by Exposure

NONE

Emergency and First Aid Procedures

WASH OUT LIQUID WITH WATER

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is released or Spilled

WASH OUT RELEASED OR SPILLED LIQUID WITH WATER

Waste Disposal Method

NON SPECIAL DISPOSAL METHORD

Precautions to Be Taken in Handling and Storing

NON SPECIAL PRECAUTIONS

Other Precautions

Section VIII - Control Measures

Respiratory Protection (Specify Type)

N/A

Ventilation	Local Exhaust	Special
	Mechanical(General)	Other

Protective Gloves NOT NECESSARY	Eye Protection NOT NECESSARY

Other Protective Clothing of Equipment

Work/Hygienic Practices NOTHING IN PARTICULAR

Radio Shack #28-142 Iron Measuring Solution

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)

IDENTITY (As Used on Label and List)	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available the space must be marked to indicate that.
Iron Measuring Solution	

Section I

Manufacturer's Name	Emergency Telephone Number
NIPPON FINE CHEMICAL CO. LTD	03-3241-0471
Adress (Number, Street, City, State, and ZIP Code)	Telephone Number for information
3-1-13 NIHONBASHI HONCHO	03-3241-0471
CHUO-KU TOKYO CITY	Date Prepared
JAPAN 103	Signature of Preparer

Section II -Hazardous ingredients/Identity Information

Hazardous Components (Specific Chemical Identity Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	(optional)
POTASSIUM FERROCYANIDE		1%		
SOLVENTS :WATER		99%		
FORMULA : K4 Fe (CN) 6 3H2 O -				

Section III - Physical/Chemical Characteristics

Boiling Point		212 ° F	Specific Gravity (H2O=1)	N/A	
Vapor Pressure(mmHg)	N/A		Melting Point	N/A	
Vapor Density(AIR=1)	N/A		Evaporation Rate (Butyl Acetate=1)	N/A	

Solubility in Water: SOLUBLE

Appearance and Odor: COLORLESS SOLUTION

Section IV - Fire and Explosion Hazard Data

Flash Point(Method Used)	Flammable Limits	LEL	UEL
N/A			

Extinguishing Media: N/A

Special Fire Fighting Procedures: N/A

Unusual Fire and Explosion Hazards: NON. USED FLAMEABLE OR EXPLOSIVE MATERIAL

(Reproduce locally)

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable X X		

Incompatibility(Materials to Avoid)

NON USED UNSTABLE MATERIAL

Hazardous Decompositions or Byproducts

N/A

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur X X		

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?

Health Hazards (Acute and Chronic)

NON SPECIAL HAZARDS IF DRINK SOLUTION OR TABLET DRINK MUCH WATER

Carcinogenicity: N/A NTP? IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure

NON ANY SIGNS AND SYMPTONS

Medical Conditions
Generally Aggravated by Exposure

NONE

Emergency and First Aid Procedures

WASH OUT LIQUID WITH WATER

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is released or Spilled

WASH OUT RELEASED OR SPILLED LIQUID WITH WATER

Waste Disposal Method

NON SPECIAL DISPOSAL METHORD

Precautions to Be Taken in Handling and Storing

NON SPECIAL PRECAUTIONS

Other Precautions

Section VIII - Control Measures

Respiratory Protection (Specify Type)

N/A

Ventilation	Local Exhaust	Special
	Mechanical(General)	Other

Protective Gloves NOT NECESSARY	Eye Protection NOT NECESSARY

Other Protective Clothing of Equipment

Work/Hygienic Practices NOTHING IN PARTICULAR